

## Refine Search

### Search Results -

Terms	Documents
L2 and (cation or (cation near group) or zinc or lanthanide or (alkaline earth near metal) or (alkali near metal))	24

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L3

Refine Search

Recall Text

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Interrupt

### Search History

DATE: Wednesday, April 11, 2007  
 [Purge Queries](#)  
 [Printable Copy](#)  
 [Create Case](#)

<u>Set</u> <u>Name</u> <u>Query</u> side by side	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>		
<u>L3</u> L2 and (cation or (cation near group) or zinc or lanthanide or (alkaline earth near metal) or (alkali near metal))	24	<u>L3</u>
<u>L2</u> L1 and (sulfonated or sulfonat\$2) (polystyrene near polyisobutylene near block near copolymer) or (PS-PIB-PS)	52	<u>L2</u>
<u>L1</u> or (polystyrene near polyisobutylene near polystyrene near block near copolymer) or (S-IB near block near copolymer)	78	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

**Search Results - Record(s) 1 through 24 of 24 returned.**

☐ 1. Document ID: US 20070067882 A1

L3: Entry 1 of 24

File: PGPB

Mar 22, 2007

PGPUB-DOCUMENT-NUMBER: 20070067882

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070067882 A1

TITLE: Internal medical devices having polyelectrolyte-containing extruded regions

PUBLICATION-DATE: March 22, 2007

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Atanasoska; Liliana	Edina	MN	US
Weber; Jan	Maple Grove	MN	US
Warner; Robert	Woodbury	MN	US

US-CL-CURRENT: [606/192](#), [977/904](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 2. Document ID: US 20070020308 A1

L3: Entry 2 of 24

File: PGPB

Jan 25, 2007

PGPUB-DOCUMENT-NUMBER: 20070020308

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070020308 A1

TITLE: Polymers having covalently bound therapeutic agents

PUBLICATION-DATE: January 25, 2007

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Richard; Robert E.	Wrentham	MA	US
Faust; Rudolf	Lexington	MA	US

US-CL-CURRENT: [424/423](#); [424/78.09](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D
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☐ 3. Document ID: US 20070020307 A1

L3: Entry 3 of 24

File: PGPB

Jan 25, 2007

PGPUB-DOCUMENT-NUMBER: 20070020307

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070020307 A1

TITLE: Medical devices containing radiation resistant polymers

PUBLICATION-DATE: January 25, 2007

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhong; Sheng-Ping	Shrewsbury	MA	US
Ma; Enxin	Framingham	MA	US
Jang; Eun-Hyun	Brookline	MA	US

US-CL-CURRENT: 424/423; 525/508

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 4. Document ID: US 20070005024 A1

L3: Entry 4 of 24

File: PGPB

Jan 4, 2007

PGPUB-DOCUMENT-NUMBER: 20070005024

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070005024 A1

TITLE: Medical devices having superhydrophobic surfaces, superhydrophilic surfaces, or both

PUBLICATION-DATE: January 4, 2007

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Weber; Jan	Maple Grove	MN	US
Schewe; Scott	Eden Prairie	MN	US
Berg; Brian	St. Paul	MN	US

US-CL-CURRENT: 604/265

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 5. Document ID: US 20060204545 A1

L3: Entry 5 of 24

File: PGPB

Sep 14, 2006

PGPUB-DOCUMENT-NUMBER: 20060204545  
PGPUB-FILING-TYPE:  
DOCUMENT-IDENTIFIER: US 20060204545 A1

TITLE: Drug release regions for medical devices, which include polycyclic-  
structure-containing polymers

PUBLICATION-DATE: September 14, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ranade; Shrirang V.	Arlington	MA	US
Helmus; Michael N.	Worcester	MA	US
Richard; Robert E.	Wrentham	MA	US

US-CL-CURRENT: 424/425

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 20060171981 A1

L3: Entry 6 of 24

File: PGPB

Aug 3, 2006

PGPUB-DOCUMENT-NUMBER: 20060171981  
PGPUB-FILING-TYPE:  
DOCUMENT-IDENTIFIER: US 20060171981 A1

TITLE: Medical devices having polymeric regions with copolymers containing  
hydrocarbon and heteroatom-containing monomeric species

PUBLICATION-DATE: August 3, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Richard; Robert E.	Wrentham	MA	US
Schwarz; Marlene C.	Auburndale	MA	US
Faust; Rudolf	Lexington	MA	US

US-CL-CURRENT: 424/422; 623/1.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 20060165754 A1

L3: Entry 7 of 24

File: PGPB

Jul 27, 2006

PGPUB-DOCUMENT-NUMBER: 20060165754  
PGPUB-FILING-TYPE:  
DOCUMENT-IDENTIFIER: US 20060165754 A1

TITLE: Medical devices containing crazed polymeric release regions for drug

delivery

PUBLICATION-DATE: July 27, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ranade; Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 424/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 20060129215 A1

L3: Entry 8 of 24

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060129215

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060129215 A1

TITLE: Medical devices having nanostructured regions for controlled tissue biocompatibility and drug delivery

PUBLICATION-DATE: June 15, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus; Michael N.	Worcester	MA	US
Xu; Yixin	Newton	MA	US
Ranade; Shrirang V.	Arlington	MA	US

US-CL-CURRENT: 607/115

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 20060127442 A1

L3: Entry 9 of 24

File: PGPB

Jun 15, 2006

PGPUB-DOCUMENT-NUMBER: 20060127442

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060127442 A1

TITLE: Use of supercritical fluids to incorporate biologically active agents into nanoporous medical articles

PUBLICATION-DATE: June 15, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
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Helmus; Michael N.

Worcester

MA

US

US-CL-CURRENT: 424/423; 427/2.26, 623/1.11, 977/931

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 20060034931 A1

L3: Entry 10 of 24

File: PGPB

Feb 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060034931

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060034931 A1

TITLE: Solvent-assisted loading of therapeutic agents

PUBLICATION-DATE: February 16, 2006

## INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Hansen; James G.

Coon Rapids

MN

US

US-CL-CURRENT: 424/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 11. Document ID: US 20060014720 A1

L3: Entry 11 of 24

File: PGPB

Jan 19, 2006

PGPUB-DOCUMENT-NUMBER: 20060014720

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060014720 A1

TITLE: Heparin prodrugs and drug delivery stents formed therefrom

PUBLICATION-DATE: January 19, 2006

## INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Hossainy; Syed Faiyaz Ahmed

Fremont

CA

US

Ding; Ni

San Jose

CA

US

US-CL-CURRENT: 514/56; 514/8, 530/395, 536/21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 12. Document ID: US 20050239508 A1

L3: Entry 12 of 24

File: PGPB

Oct 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050239508  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050239508 A1

TITLE: Medical articles having therapeutic-agent-containing regions formed from  
coalesced polymer particles

PUBLICATION-DATE: October 27, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schwarz, Marlene C.	Auburndale	MA	US
Richard, Robert E.	Wrentham	MA	US
Zhong, Sheng-Ping	Shrewsbury	MA	US

US-CL-CURRENT: 455/562.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 13. Document ID: US 20050228433 A1

L3: Entry 13 of 24

File: PGPB

Oct 13, 2005

PGPUB-DOCUMENT-NUMBER: 20050228433  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050228433 A1

TITLE: In situ implant and method of forming same

PUBLICATION-DATE: October 13, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bucay-Couto, Weenna	Burlington	MA	US
Liu, Cliff	Randolph	MA	US

US-CL-CURRENT: 606/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 14. Document ID: US 20050215722 A1

L3: Entry 14 of 24

File: PGPB

Sep 29, 2005

PGPUB-DOCUMENT-NUMBER: 20050215722  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050215722 A1

TITLE: Drug delivery compositions and medical devices containing block copolymer

PUBLICATION-DATE: September 29, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Pinchuk, Leonard	Miami	FL	US
Hashemi, Sepideh	Weston	MA	US
Schwarz, Marlene C.	Newton	MA	US
Kamath, Kalpana	Natick	MA	US
Ding, Ni	San Jose	CA	US

US-CL-CURRENT: 525/314

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 15. Document ID: US 20050187146 A1

L3: Entry 15 of 24

File: PGPB

Aug 25, 2005

PGPUB-DOCUMENT-NUMBER: 20050187146

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050187146 A1

TITLE: Biomaterials for enhanced healing

PUBLICATION-DATE: August 25, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Helmus, Michael N.	Worcester	MA	US
Richard, Robert	Wrentham	MA	US
Dixon, Melissa	Milford	MA	US

US-CL-CURRENT: 514/8; 424/78.27, 525/54.2, 530/395

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 16. Document ID: US 20050181015 A1

L3: Entry 16 of 24

File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050181015

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050181015 A1

TITLE: Layered silicate nanoparticles for controlled delivery of therapeutic agents from medical articles

PUBLICATION-DATE: August 18, 2005



## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhong, Sheng-Ping (Samuel)	Shrewsbury	MA	US

US-CL-CURRENT: 424/426

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 17. Document ID: US 20050181014 A1

L3: Entry 17 of 24

File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050181014  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050181014 A1

TITLE: Polymer-filler composites for controlled delivery of therapeutic agents from medical articles

PUBLICATION-DATE: August 18, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Richard, Robert E.	Wrentham	MA	US

US-CL-CURRENT: 424/426

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 18. Document ID: US 20040106987 A1

L3: Entry 18 of 24

File: PGPB

Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040106987  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040106987 A1

TITLE: Medical devices for delivery of therapeutic agents

PUBLICATION-DATE: June 3, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Palasis, Maria	Wellesley	MA	US
Naimark, Wendy	Cambridge	MA	US
Richard, Robert E.	Wrentham	MA	US

US-CL-CURRENT: 623/1.42

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 19. Document ID: US 20030171496 A1

L3: Entry 19 of 24

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030171496  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030171496 A1

TITLE: Drug delivery compositions and medical devices containing block copolymer

PUBLICATION-DATE: September 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Pinchuk, Leonard	Miami	FL	US
Nott, Sepideh	Weston	MA	US
Schwarz, Marlene	Newton	MA	US
Kamath, Kalpana	Natick	MA	US

US-CL-CURRENT: 525/242

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw. De
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☐ 20. Document ID: US 20020107330 A1

L3: Entry 20 of 24

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020107330  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020107330 A1

TITLE: Drug delivery compositions and medical devices containing block copolymer

PUBLICATION-DATE: August 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Pinchuk, Leonard	Miami	FL	US
Nott, Sepideh	Weston	MA	US
Schwarz, Marlene	Newton	MA	US
Kamath, Kalpana	Natick	MA	US

US-CL-CURRENT: 525/242; 424/423, 424/501, 525/221, 525/240, 525/937

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMNC	Draw. De
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☐ 21. Document ID: US 6855770 B2

L3: Entry 21 of 24

File: USPT

Feb 15, 2005

US-PAT-NO: 6855770

DOCUMENT-IDENTIFIER: US 6855770 B2

**\*\* See image for Certificate of Correction \*\***

TITLE: Drug delivery compositions and medical devices containing block copolymer

DATE-ISSUED: February 15, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pinchuk; Leonard	Miami	FL		
Nott; Sepideh	Weston	MA		
Schwarz; Marlene	Newton	MA		
Kamath; Kalpana	Natick	MA		

US-CL-CURRENT: 525/240; 424/423, 424/424, 424/501, 525/221, 525/242

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 22. Document ID: US 6579948 B1

L3: Entry 22 of 24

File: USPT

Jun 17, 2003

US-PAT-NO: 6579948

DOCUMENT-IDENTIFIER: US 6579948 B1

TITLE: Self-assembled sulfonated block copolymer semipermeable membrane and uses therefor

DATE-ISSUED: June 17, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tan; Nora C. Beck	Perryville	MD		
Crawford; Dawn M.	Bel Air	MD		
Sloan; James M.	Bel Air	MD		
Napadensky; Eugene	Newark	DE		

US-CL-CURRENT: 525/333.5; 428/308.4, 428/308.8, 525/344

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 23. Document ID: US 6545097 B2

L3: Entry 23 of 24

File: USPT

Apr 8, 2003

US-PAT-NO: 6545097

DOCUMENT-IDENTIFIER: US 6545097 B2

**\*\* See image for Certificate of Correction \*\***

TITLE: Drug delivery compositions and medical devices containing block copolymer

DATE-ISSUED: April 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pinchuk; Leonard	Miami	FL		
Nott; Sepideh	Weston	MA		
Schwarz; Marlene	Newton	MA		
Kamath; Kalpana	Natick	MA		

US-CL-CURRENT: 525/240; 424/423, 424/501, 525/221, 525/242

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 24. Document ID: US 5098472 A

L3: Entry 24 of 24

File: USPT

Mar 24, 1992

US-PAT-NO: 5098472

DOCUMENT-IDENTIFIER: US 5098472 A

TITLE: Preservative composition

DATE-ISSUED: March 24, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Watkins; John B.	New South Wales			AU
Greaves; Harry	Victoria			AU
Chin; Chen W.	Victoria			AU

US-CL-CURRENT: 106/15.05; 106/123.12, 106/123.13, 106/218, 106/219, 106/236,  
106/241, 106/287.1, 106/311, 252/382, 252/407, 516/40, 516/41, 516/DIG.2, 525/7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Terms

L2 and (cation or (cation near group) or zinc  
or lanthanide or (alkaline earth near metal)  
or (alkali near metal))

Documents

24